

Summary of Changes to Arizona's Common Core Standards – Mathematics

In order to help facilitate the transition to Arizona's Common Core Standards and the PARCC assessment, this document provides the changes in standards (from 2008 to 2010) and in assessments (from AIMS to PARCC). Descriptions of the document's columns are as follows.

Addressed by AIMS (2013 and 2014) – The Performance Objectives identified in the two columns below this heading are to be embedded in instruction and are assessed by AIMS in 2013 and 2014.

- **Removed from Specifically Being Tested in 2015** – Some of the more “granular” POs from the 2008 Standard have been incorporated into the more “global” standards of Arizona's Common Core Standards by becoming examples or prerequisite knowledge for teaching the concept. This column notes the Performance Objectives that have been removed as being tested as a specific objective. The Performance Objectives identified in this column will still be assessed by AIMS in 2013 and 2014.
- **Moved to a Different Grade Level** – Performance Objectives listed in this column will move to a different grade level for Arizona's Common Core Standards and the PARCC Assessment as indicated at the end of the PO. The Performance Objectives identified in this column will still be assessed by AIMS in 2013 and 2014 at the current grade level.

Addressed by PARCC (2015) – The Performance Objectives identified in the two columns below this heading are included in the 2010 Standards and are expected to be addressed by the PARCC assessment.

- **Moved from Another Grade Level** – For alignment to Arizona's Common Core Standards and to be addressed by the PARCC Assessment, the Performance Objectives identified in this column are moved into the current grade level from another grade level as indicated at the beginning of the PO.
- **New Standards** – As noted by an asterisk in the Mathematics Crosswalks, the standards listed in this column from Arizona's Common Core Standards are new and will not match any of the POs from the 2008 Standard. These new standards are expected to be addressed by the PARCC assessment.

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GRADE 3			
Addressed by AIMS (2013 and 2014)		Addressed by PARCC (2015)	
Removed from Specifically Being Tested in 2015	Moved to a Different Grade Level	Moved from Another Grade Level	New Standards
M03-S1C1-04 (2008) Sort whole numbers into sets and justify the sort.	M03-S1C1-02 (2008) Compare and order whole numbers through six digits by applying the concept of place value. MOVED TO 4.NBT.2 (2010)	<p>M04-S1C1-03 (2008) MOVED TO 3.NF.2a (2010) & 3.NF.2b (2010) Understand a fraction as a number on the number line; represent fractions on a number line diagram.</p> <p>a. Represent a fraction $\frac{1}{b}$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Recognize that each part has size $\frac{1}{b}$ and that the endpoint of the part based at 0 locates the number $\frac{1}{b}$ on the number line.</p> <p>b. Represent a fraction $\frac{a}{b}$ on a number line diagram by marking off a lengths $\frac{1}{b}$ from 0. Recognize that the resulting interval has size $\frac{a}{b}$ and that its endpoint locates the number $\frac{a}{b}$ on the number line.</p>	

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M03-S1C2-06 (2008) Describe the effect of operations (multiplication and division) on the size of whole numbers.	M03-S1C1-03 (2008) Count and represent money using coins and bills to \$100.00. MOVED TO 2.MD.8 (2010)	M04-S4C4-02 (2008) MOVED TO 3.MD.2 (2010) Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). (Excludes compound units such as cm ³ and finding the geometric volume of a container.) Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem. (Excludes multiplicative comparison problems (problems involving notions of “times as much”; see Glossary, Table 2).	
M03-S2C1-02 (2008) Formulate and answer questions by interpreting and analyzing displays of data, including frequency tables, single bar graphs, or single line graphs.	M03-S2C3-01 (2008) Represent all possibilities for a variety of counting problems using arrays, charts, and systematic lists; draw conclusions from these representations. MOVED TO AZ.4.OA.3.1 (2010)	M04-S4C4-05 (2008) MOVED TO 3.MD.8 (2010) Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.	

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M03-S2C4-01 (2008) Color complex maps using the least number of colors and justify the coloring.	M03-S2C3-02 (2008) Solve a variety of problems based on the multiplication principle of counting. MOVED TO AZ.4.OA.3.1 (2010)	M05-S3C3-01 (2008) MOVED TO 3.OA.8 (2010) Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. (This standard is limited to problems posed with whole numbers and having whole number answers; students should know how to perform operations in the conventional order when there are no parentheses to specify a particular order (Order of Operations)).	
M03-S2C4-02 (2008) Investigate properties of vertex-edge graphs <ul style="list-style-type: none"> circuits in a graph, weights on edges, and shortest path between two vertices. 	M03-S3C2-01 (2008) Recognize and describe a relationship between two quantities, given by a chart, table, or graph, in which quantities change proportionally, using words, pictures, or expressions. MOVED TO 5.OA.3 (2010)	M05-S4C4-01 (2008) MOVED TO 3.MD.1 (2010) Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	

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M03-S2C4-03 (2008) Solve problems using vertex-edge graphs.	M03-S3C3-01 (2008) Record equivalent forms of whole numbers to six digits by constructing models and using numbers. MOVED TO 4.NBT.2 (2010)	<p>M05-S4C4-05 (2008) MOVED TO 3.MD.5a (2010) & 3.MD.5b (2010) Recognize area as an attribute of plane figures and understand concepts of area measurement.</p> <ul style="list-style-type: none"> a. A square with side length 1 unit, called “a unit square,” is said to have “one square unit” of area, and can be used to measure area. b. A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units. <p>M05-S4C4-05 (2008) MOVED TO 3.MD.6 (2010) Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).</p>	

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M03-S3C2-02 (2008) Translate between the different representations of whole number relationships, including symbolic, numerical, verbal, or pictorial.	M03-S4C1-03 (2008) Identify and describe 3-dimensional figures including their relationship to real world objects: sphere, cube, cone, cylinder, pyramids, and rectangular prisms. MOVED TO K.G.1 (2010), K.G.2 (2010), & K.G.3 (2010)	NOTE: There is an increased expectation at third grade to recognize and generate equivalent fractions, measure and estimate liquid volumes and masses of objects using metric standard units, and make line plots. Students are also expected to apply the distributive property as a strategy for multiplication and represent the distributive property using area models. Please see crosswalk for detailed information.	
M03-S4C1-01 (2008) Describe sequences of 2-dimensional figures created by increasing the number of sides, changing size, or changing orientation.	M03-S4C1-04 (2008) Describe and compare attributes of two- and three-dimensional figures. MOVED TO K.G.4 (2010)		
M03-S4C1-02 (2008) Recognize similar figures.	M03-S4C2-02 (2008) Identify, with justification, all lines of symmetry in a 2-dimensional figure. MOVED TO 4.G.1 (2010)		
M03-S4C2-01 (2008) Identify a translation, reflection, or rotation and model its effect on a 2-dimensional figure.	M03-S4C4-03 (2008) Convert units of length, weight, and capacity <ul style="list-style-type: none"> • inches or feet to yards, • ounces to pounds, and • cups to pints, pints to quarts, quarts to gallons. MOVED TO 4.MD.1 (2010)		